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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/591,708	06/09/2000	Stuart J. Jacobs	00-8010	2685

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EXAMINER

HA, LEYNNA A

ART UNIT	PAPER NUMBER
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2135

DATE MAILED: 06/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/591,708

Applicant(s)

JACOBS ET AL.

Examiner

LEYNNA T. HA

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 AND 8-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 and 8-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

WP

**DETAILED ACTION**

**1.** This is a Non-Final office action in response to Applicant's request for continuation examination.

Claims 1-6 and 8-22 have been re-examined and a further search have been performed.

Claims 7 and 23 are cancelled.

**2.** Claims 1-6 and 8-22 are rejected under 35 U.S.C. 102(b).

***Claim Rejections - 35 USC § 102***

*The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:*

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**3. Claims 1-6 and 8-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Sudia, et al. (US 5,825,880).**

**As per claim 1:**

Sudia teaches in a node operative within a network of a plurality of nodes, a method for performing cryptographic-related functions comprising:

executing an application program at the node which need not be highly secured; **[(col.3, lines 28-29 and col.7, lines 33-34); A “node which need not be highly secured” can broadly interpret as a node that involves some kind of security which does not mean the node or the environment is unprotected. The limitation “not to be highly secured” does not read the same as a node is not secured or unprotected. Hence, Sudia’s network includes a node that is not highly secured because the node contains some kind of protection when it is requested to perform cryptographic related processing such as the signing device involving public/private keys.]**

receiving an input requiring cryptographic-related processing; **(col.7, lines 12-13)**

generating a message via the application program based on the input **(col.7, lines 34-52)**, the message representing one of a predefined set of messages **(col.8, lines 10-11 and col.11, lines 6-15)** for processing by a cryptographic processing component **(col.9, lines 9-13)** located within the network node **(col.7, lines 53-65);**

transmitting the message to the cryptographic processing component; and **(col.7, lines 41-42)**

performing the cryptographic-related processing (**col.10, lines 5-46**).

**As per claim 2:**

Sudia discloses verifying a digital signature wherein includes encrypting and decrypting data (col.6, lines 32-42), retrieving the digital certificate (col.10, lines 15-38), verifying the hierarchy (col.1, lines 24-38), and self-signed certificate processing (col.7, lines 45-52) within the node. Further, Sudia discloses certificate age checking in the form of time stamping (col.9, lines 13-16).

**As per claim 3:** See col.11, lines 9-22 and col.16, lines 35-67 discusses generating a function call message representing a request for performing a predetermined cryptographic related functions.

**As per claim 4:**

Sudia discloses generating an output message via the application program wherein the output message requiring cryptographic-related processing (col.11, lines 6-10), transmitting one of predefined the messages (col.11, lines 10-13) to the cryptographic processing component (col.9, lines 9-13) to perform the cryptographic-related processing (col.9, lines 55-56), and outputting the processed message (col.11, lines 17-18).

**As per claim 5:**

Sudia teaches a computer readable medium having stored thereon a plurality of sequences of instructions that may be invoked by a plurality of predefined messages executed by a processor in an environment which not be highly secure, cause said processor to perform a method comprising:

receiving an input representing one of predefined messages; (**col.8, lines 10-11 and col.10, lines 10-14**)

transmitting, based on the input (**col.9, line 64 – col.10, lines 2**), generating a function call message (**col.8, lines 24-55**) representing a request (**col.11, lines 6-9**) for performing a predetermined cryptographic related functions (**col.11, lines 9-22 and col.16, lines 35-67**); and

perform the cryptographic-related processing (**col.10, lines 15-30**).

**As per claim 6:**

Sudia discloses verifying a digital signature wherein includes encrypting and decrypting data (col.6, lines 32-42), retrieving the digital certificate (col.10, lines 15-38), verifying the hierarchy (col.1, lines 24-38), and self-signed certificate processing (col.7, lines 45-52) within the node. Further, Sudia discloses certificate age checking in the form of time stamping (col.9, lines 13-16).

**As per claim 7: Cancelled**

**As per claim 8:** See col.11, lines 6-13.

**As per claim 9:**

Sudia discloses in an environment which need not be highly secure, a cryptographic module, comprising:

a memory configured to operate within an environment and to store a plurality of cryptographic processing programs, each program being invoked via one of a plurality of predefined messages; and **(col.9, lines 3-18)**

a processor configured to operate within an environment and to: **(col.8, line 67 – col.9, line 2)**

receive an input requiring cryptographic-related processing, **(col.7, lines 34-40)**

generates one of predefined messages based on the input, **(col.8, lines 10-11 and col.10, lines 10-14)**

transmit the message to the first one of the cryptographic processing programs, and **(col.9, lines 55-56 and col.10, lines 15-30)**

to perform the cryptographic-related processing. **(col.11, lines 9-22 and col.16, lines 35-67)**

**As per claim 10:**

Sudia discloses verifying a digital signature wherein includes encrypting and decrypting data (col.6, lines 32-42), retrieving the digital certificate (col.10, lines 15-38), verifying the hierarchy (col.1, lines 24-38), and self-signed certificate processing (col.7, lines 45-52) within the node. Further, Sudia

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discloses certificate age checking in the form of time stamping (col.9, lines 13-16).

**As per claim 11:** See col.7, lines 34-45; discussing transmit a function call to the first cryptographic processing program.

**As per claim 12:** See col.11, lines 6-13; discussing transmit the result of the cryptographic-related processing to an application program.

**As per claim 13:**

Sudia includes cryptographic module comprising:

means, operative in the environment **(col.6, lines 25-30)**, for storing a plurality of cryptographic processing programs that is invoked via one of the plurality of predefined messages; **(col.8, lines 10-11 and col.10, lines 10-14)**

means, operative in the environment, for receiving an input requiring cryptographic-related processing; **(col.7, lines 34-40)**

means, operative in the environment, for generating the one of predefined messages based on the input; **(col.8, lines 45-55)**

means, operative in the environment, for transmitting the message to the first one of the cryptographic processing programs, and **(col.9, lines 9-13)**

means, operative in the environment, for performing the cryptographic-related processing. **(col.10, lines 5-46)**

**As per claim 14:**

Sudia discusses a method of performing cryptographic-related functions in a node coupled to other nodes in a network environment which need not be



highly secure, the node includes an application program for handling communications with the other nodes the method comprising:

receiving in said node within the environment **(col.3, lines 28-29 and col.6, lines 22-30)** an input requiring cryptographic-related processing; **(col.7, lines 34-40 and lines 53-54)**

generating in said node within the environment a predefined message **(col.8, lines 10-11)** based on the input **(col.9, line 64 – col.10, lines 2)**, the message one of a plurality of predefined message usable by of the cryptographic processing programs executed by the network node; **(col.9, lines 9-13 and lines 55-56)**

transmitting in said node within the environment a predefined message to the cryptographic processing program; **(col.10, lines 10-14)**

performing in said node within the environment, via cryptographic processing program the desired cryptographic-related operation. **(col.11, lines 9-22 and col.16, lines 35-67)**

**As per claim 15:** See col.11, lines 38-52.

**As per claim 16:**

Sudia discusses the method of requests for digital generation, verification, data encryption and decryption (col.6, lines 32-42), retrieval of digital certificate (col.10, lines 15-38), verifying the hierarchy (col.1, lines 24-38), self-signed certificate processing (col.7, lines 45-52), and certificate age checking in the form of time stamping (col.9, lines 13-16).

**As per claim 17:** See col.6, lines 4-19 and col. 7, lines 8-15; discussing the RSA signature scheme and the MD5 scheme.

**As per claim 18:** See col.6, lines 4-19 and col. 7, lines 8-15 ; discussing the RSA signature scheme and the MD5 scheme.

**As per claim 19:** See col.6, lines 4-19 and col. 7, lines 8-15; discussing the RSA signature scheme and the MD5 scheme.

**As per claim 20:** See col.6, lines 4-19 and col. 7, lines 8-15; discussing the RSA signature scheme and the MD5 scheme.

**As per claim 21:** See col.6, lines 24-30; discusses accessing a remote server via the network to retrieve cryptographic related information.

**As per claim 22:**

Sudia discloses a computer-readable medium that stores instructions executable by at least one processor in an environment which need not be highly secure to perform a method for providing cryptographic-related functions, the method comprising:

receiving in at least one processor in the environment (**col.3, lines 28-29 and col.7, lines 33-34**) a first function call from a predefined list of function calls, the predefined list of function calls (**col.8, lines 10-11 and 11, lines 8-15**) representing available cryptographic-related functions executable by the at least one processor; (**col.8, line 62 – col.9, line 18**)

generating in at least one processor in the environment a request message based on the first function call (**col.7, lines 34-40**), a for

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cryptographic processing to further transmit the request message representing a request for processing by **(col.11, lines 6-22 and col.16, lines 35-67)** a cryptographic processing module executed by the at least one processor; **(col.9, lines 9-18 and lines 55-56)**

transmitting in at least one processor in the environment the request message to the cryptographic processing module; and **(col.10, lines 10-14)**

performing in at least one processor in the environment the cryptographic-related processing. **(col.10, lines 31-38)**

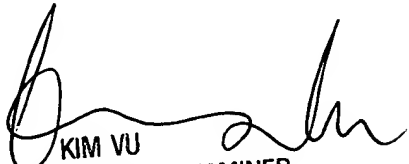
### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEYNNA T. HA whose telephone number is (571) 272-3851. The examiner can normally be reached on Monday - Thursday (7:00 - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LHa

  
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